

ABSTRACT OF THE DISCLOSURE

A hybrid injection unit for an injection molding machine includes a plasticizing screw having a shaft and constructed for rotation and axial displacement. Operatively connected to the shaft is a first electric motor for rotating the plasticizing screw, and a second electric motor for axial displacement of the plasticizing screw. A cost-efficient construction of the second electric motor and reduced stress of the linkage between this electric motor and the shaft is realized by providing at least one piston and cylinder unit in fluid communication with a pressure source for support of the second electric motor in injection direction, and a traverse acted upon by one end of the piston and cylinder unit and rotatably supporting the shaft of the plasticizing shaft. The traverse acts upon the shaft between a force introduction point of the second electric motor into the shaft, on one hand, and the plasticizing screw, on the other hand.